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14.3, 14, 18

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

Data modeling (Continuation)

The outline is as follows:

- ① Fisher Forecast (Fisher information Matrix)
★ Mathematical Foundation
Main Motivation
- ② Confidence Interval on desired Model's Free Parameters
- ③ General Properties of Fisher information Matrix
- ④ Goodness of fit.

The main subjects addressed here:

★ Considering Multivariate Gaussian

Distribution, →

Simulation
Based inference

We are interested in finding

Confidence Interval of Parameter

$$\{\theta\} = \{\theta_1, \dots, \theta_n\}$$

★ Quantifying the Significance of

Constraining on the Parameter $\{\theta\}$

by a typical Pipeline

